# CONSTRUCTION & DEMOLITION DEBRIS DIVERSION REFERENCE MANUAL



## **BUILDING DIVISION**

Community Development Department
City of Burbank

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## **BACKGROUND**

Through recovery of materials and source-reduction activities, the Construction & Demolition Debris Diversion Ordinance establishes recycling standards and requires developers and builders to incorporate these standards into their projects' construction process. The construction waste ordinance was originally added to the City of Burbank Municipal Code by Ordinance No. 3652, effective 11/20/04, as a companion project to the Green Building and Sustainable Architecture Program. The ordinance was amended effective July 1, 2007, and is now mandatory for applicable projects. The California Green Building Standards Code expanded the scope of the requirements to include projects subject to CalGreen.

## **WHAT ARE CONSTRUCTION AND DEMOLITION MATERIALS?**

C&D MATERIALS					
Materials	Materials Components				
• Wood	• Lumber, plywood, scraps, laminates (no pressure-treated wood)				
<ul><li>Drywall</li></ul>	Sheetrock, gypsum, plaster				
<ul><li>Metals</li></ul>	Metals • Pipes, rebar, flashing, steel, aluminum, copper, brass, stainless steel				
<ul><li>Plastics</li></ul>	Vinyl siding, doors, windows, floor tiles, pipes				
<ul><li>Roofing</li></ul>	Asphalt & wood shingles, slate, tile, roofing felt				
• Rubble	Asphalt, concrete, cinder block				
• Brick	Bricks and decorative blocks				
• Glass	Windows, mirrors, lights				
<ul> <li>Miscellaneous</li> </ul>	Carpeting, fixtures, insulation, ceramic tile				

Inert materials removed from the project site such as dirt, natural soil and gravel do not have to be recycled and are not included in the required recycling tonnage.

## AFFECTED PROJECTS

The mandatory ordinance requires residential and nonresidential new construction, additions, remodels, renovation, tenant improvements and alteration projects that are 500 square feet or more in total scope of work to recycle a minimum 50% of construction and demolition debris. Typically, most projects will send all of the debris to one waste hauler that does the actual separation of materials for recycling. In addition, all demolition projects, regardless of size, will have to recycle 50% of debris. The debris can be taken to a recycling facility, or a waste hauling service that recycles C&D materials can be hired to transport it. The goal of the ordinance is to divert the debris away from the landfill. Names of recycling centers are provided on pages 5-7 of this Manual.

Summary of projects affected by this mandatory ordinance:

- All residential and nonresidential re-roofs (temporarily exempted due to facility availability)
- All residential and nonresidential demolitions
- All new buildings
- Residential additions and alterations that increase the building's conditioned area, volume or size
- Non-residential additions of 1,000 square feet or greater
- Non-residential alterations, remodels, renovation and tenant improvements with a valuation or \$200,000 or greater

**EXAMPLE 1**: If a residential project includes an addition to the footprint of the building, it is an affected project and therefore 50% of the debris must be taken to a recycling facility.

**EXAMPLE 2**: A report by the National Association of Home Builders estimates a typical new 2,000-square-foot single-family home produces 50 cubic yards, or four tons, of debris. This project would qualify as an affected project and would have to recycle 50%, or two tons, of debris

**EXAMPLE 3:** If a commercial alteration has a valuation of \$200,000, it is an affected project and 50% of the debris must be recycled.

## **COMPLIANCE**

Diversion of debris to a recycling facility does not require an additional step by the contractor or homeowner/builder. The difference is where the debris is hauled – to a recycling facility instead of a landfill.

The same methods of collection or containment that are used for waste disposal can be used for recycling. Typically, a bin from a waste hauling company is rented to contain and transport the debris from the job site. Many of the waste haulers licensed to do business in the City already recycle the C&D debris they transport because they find it a savings to do so. Using one of the waste haulers that already recycles debris is an acceptable method of meeting the requirements of the ordinance. A list of waste haulers can be found on page 7.

Sorting the waste into different types of materials is not required or necessary to recycle. The debris can be taken to one of three local Material Recovery Facilities (MRFs) that accept and sort co-mingled debris. By pre-sorting the debris, however, the contractor or homeowner could get money back from the recycling facility for certain materials. A complete list of recycling facilities and MRFs can be found on pages 5-7.

## **CALCULATION OF DEPOSIT**

The amount of the refundable deposit is based on the total tonnage of debris generated. In a report entitled "Characterization of Building-Related Construction and Demolition Debris in the United States," the U.S. Environmental Protection Agency determined a pounds/square foot debris generation rate for the major types of construction and demolition projects.

This chart below illustrates the typical amount of construction debris created in pounds per square foot for the most common types of residential and non-residential projects.

ESTIMATED DEBRIS GENERATION (LBS/SF)					
	NEW .	DEMOLITION	RENOVATION		
RESIDENTIAL	4.5	115.0	24.0		
NONRESIDENTIAL	4.0	155.0	3.0 - Medical Office		
			5.0 - Tenant Improvement		
			10.0 - Retail Space		
	SHINGLES ONLY	•	SHINGLES & SHEATHING		
REROOFS	2.5		5.0		

The deposit amount is calculated at a rate of \$250 for the first ton and \$50 for each additional ton, with a cap of \$1,000 for residential and \$5,000 for nonresidential projects. An administrative fee amount of \$50 will be collected with the deposit and is not refundable. The following schedule lists the deposit information:

DEPOSIT			
RESIDENTIAL	1st Ton \$250	Ea. Add'l Ton \$50	Max. Deposit \$1,000
COMMERCIAL	\$250	\$50	\$5,000

The following are two examples of how the refundable deposit is calculated. Staff can assist the applicant with calculating the deposit.

**EXAMPLE 1**: To calculate the deposit amount for a 500-square-foot residential addition, multiply 500 sf by 4.5 lbs/sf, the value for new residential construction from the first table above. The product of this is 2,250 lbs. Rounding down to one whole ton (2,000 lbs.), the total deposit amount for this particular project is \$250, for the first whole ton.

**EXAMPLE 2**: To calculate the deposit amount for a 3,000-square-foot tenant improvement, multiply 3,000 sf by 5.0 lbs/sf, the value for a Tenant Improvement from the first table above. The product of this is 15,000 lbs or 7.5 tons. Rounding down to 7 whole tons, the deposit for the first ton is \$250 plus \$50/ton for each of the 6 additional tons. Six tons times \$50 equals \$300. The total deposit for this particular project is \$250 plus \$300 = \$550.

## RECYCLERS IN THE BURBANK AREA

The following list is reprinted from the California Integrated Waste Management Board website: <a href="https://www.ciwmb.ca.gov/ConDemo/Recyclers/Default.asp">www.ciwmb.ca.gov/ConDemo/Recyclers/Default.asp</a>. The website provides a searchable database by county and material for C&D recyclers. All sites listed were chosen from the Glendale – San Fernando Valley area when available. When sites are not listed for these areas, the closest recyclers have been listed.

This list is a sampling of facilities in the area and is for information purposes only. The City is not endorsing or recommending any of the listed providers. If you are a licensed recycling business and would like to be listed, please contact the Building Division.

FACILITY	CONTACT INFORMATION
ASPHALT PAVING, CONCRETE	
Looney Bins Inc.	(818) 252-0019
11616 Sheldon St., Sun Valley, 91352	Rudy Melendrez
	rudy@looneybins.com
Newman and Sons, Inc.	(818) 767-0700
9005 Bradley Ave., Sun Valley, 91352	(818) 767-0224
	www.newmanandsons.com
Recycled Base Materials, Inc.	(818) 767-3088
Valley Base Materials	valleybase@aol.com
8960 Bradley, Sun Valley	
AMH Recycling	(818) 652-0540
Sun Valley	
Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
BRICK	
Looney Bins Inc.	(818) 252-0019
11616 Sheldon St., Sun Valley, 91352	Rudy Melendrez
	rudy@looneybins.com
Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
Downtown Diversion	(213) 612-5005
2424 E Olympic Blvd., Bldg.#3, Los Angeles, 90021	www.downtowndiversion.com
AMH Recycling	(818) 652-0540
Sun Valley	
Habitat for Humanity Home Improvement Store	www.shophabitat.com
CARPET, PADDING	•
L.A. Fiber Co.	(323)589-5637
5190 Santa Fe Avenue, Vernon, CA 90058	(323)588-0424 fax
	www.lafiber.com
Dupont Carpet Reclamation/Recycle Center	(818) 374-5200
Van Nuys	www.flooring.dupont.com
Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
CONCRETE – SEE ASPHALT	
CARDBOARD	
Looney Bins Inc.	(818) 252-0019
11616 Sheldon St., Sun Valley, 91352	Rudy Melendrez
	rudy@looneybins.com

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Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
Downtown Diversion	(213) 612-5005
2424 E Olympic Blvd., Bldg.#3, Los Angeles, 90021	<u>www.downtowndiversion.com</u>
Active Recycling	(323) 221-2555
5601 E. Valley Blvd., Los Angeles	
DRYWALL	
Looney Bins Inc.	(818) 252-0019
11616 Sheldon St., Sun Valley, 91352	Rudy Melendrez
, , , , , , , , , , , , , , , , , , ,	rudy@looneybins.com
Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
Downtown Diversion	(213) 612-5005
2424 E Olympic Blvd., Bldg.#3, Los Angeles, 90021	www.downtowndiversion.com
FLOORING	www.downtowndiversion.com
T 200 Miles	
Habitat for Humanity Home Improvement Stores	www.shophabitat.com
Traditation framaticy from a improvement stores	- WWW.STIO DITURNICA CLOOM
Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
GLASS	
	(040) 767 7544
Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
GRAVEL	
Looney Bins Inc.	(818) 252-0019
11616 Sheldon St., Sun Valley, 91352	Rudy Melendrez
	rudy@looneybins.com
METALS	
A-1 Metals Recycling	(818) 767-4388
	a1metals@aol.com
Kramar's Iron & Metal Incorporated	(818) 767-4303
Sun Valley	www.kramarmetals.com
Kramer Metals	www.kramermetals.com
Los Angeles	(323)587-2277
Looney Bins Inc.	(818) 767-4303
11616 Sheldon St., Sun Valley, 91352	kimco@sbcglobal.net
Valley Iron & Metal Co.	(818) 767-5022
9754 San Fernando Rd, Sun Valley, 91352	(010) 707 3022
PALLETS	
Arnie's Supply Service	(323) 263-1696
	(323) 203-1030
1541 N. Ditman Ave., Los Angeles PLASTICS	
	1
Master Recycling Co	(626) 442-4242
2845 Durfee Ave., El Monte 91723	
Active Recycling	(323) 221-2555
5601 E. Valley Blvd., Los Angeles	
ROCK	
Newman and Sons, Inc.	(818) 767-0700
	(818) 767-0700 (818) 767-0224

ROOFING	
Active Recycling Co.	818-785-0600
14300 Bessemer St., Van Nuys	www.activelosangeles.com
Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
SAND	
Newman and Sons, Inc.	(818) 767-0700
9005 Bradley Ave., Sun Valley, 91352	(818) 767-0224
	www.newmanandsons.com
SOIL	
Looney Bins Inc.	(818) 252-0019
11616 Sheldon St., Sun Valley, 91352	Rudy Melendrez
	rudy@looneybins.com
WOOD	
Community Recycling/Resource Recovery	(818) 767-7511
9147 DeGarmo Ave., Sun Valley	www.communityrecycling.net
Looney Bins Inc.	(818) 252-0019
11616 Sheldon St., Sun Valley, 91352	Rudy Melendrez
	rudy@looneybins.com
Downtown Diversion	(213) 612-5005
2424 E Olympic Blvd., Bldg.#3, Los Angeles, 90021	www.downtowndiversion.com

## WASTE HAULERS THAT RECYCLE C&D DEBRIS

The recycling requirement can be fulfilled by utilizing a licensed waste hauling service that recycles the mixed C&D debris. The following is a list of licensed waste haulers that recycle:

(The City is not endorsing or recommending any of the listed providers. If you are a licensed recycling business and would like to be listed, please contact the Building Division.)

Athens Services www.AthensServices.com	Sun Valley	(888) 336-6100
BFI Waste Systems	Sun Valley	(888) 742-5234
Frank's Disposal	Sun Valley	(818) 352-5001
Looney Bins Inc. www.looneybins.com	Sun Valley	(818) 768-7197 rudy@looneybins.com
Metropolis Disposal		(818) 901-2020
Southland Disposal		(818) 500-4884
Crown Disposal	Sun Valley	(818) 767-0675

## **LOCAL MRFs (FOR MIXED WASTE DEBRIS):**

- Downtown Diversion 2424 E Olympic Blvd., Bldg.#3, LA 90021, (213) 612-5005, www.downtowndiversion.com
- Community Recycling & Resource Recovery, 9147 DeGarmo Av., Sun Valley, (818) 767-6000, <u>www.communityrecycling.net</u>
- Looney Bins, Inc., 11616 Sheldon St. ,Sun Valley, (818) 252-0019, www.looneybins.com
- Athens Sun Valley MRF 11121 Pendleton St., Sun Valley 91352, (888) 336-6100 www.AthensServices.com

#### **RESOURCES**

The BURBANK RECYCLE CENTER accepts (but does not pay for) scrap metal, mixed waste plastics and mixed waste paper. The Center accepts and pays for cardboard. Please call the Recycle Center at (818) 238-3900.

HAZARDOUS/UNIVERSAL WASTES: For large quantities of electronics, fluorescents, batteries or other hazardous waste, call Burbank Recycle Center (818) 238-3900.

The CONSTRUCTION MATERIALS RECYCLING ASSOCIATION is a trade group that provides support to the recycling industry and promotes the use and recycling of C&D debris. The web site is <a href="https://www.cdrecycling.org">www.cdrecycling.org</a>. Phone (818) 548-8996. Fax (818) 265-5171.

The CALIFORNIA INTEGRATED WASTE MANAGEMENT BOARD (CIWMB) created a tool to help characterize a C&D waste stream by visually estimating the composition of C&D samples. The tool helps determine the percentage of the various materials in the C&D disposed waste stream. See: <a href="https://www.ciwmb.ca.gov/Publications/default.asp?pubid=1224">www.ciwmb.ca.gov/Publications/default.asp?pubid=1224</a> and <a href="https://www.ciwmb.ca.gov/WasteChar/Calculator/Default.htm">www.ciwmb.ca.gov/WasteChar/Calculator/Default.htm</a>

#### DATABASES:

- Construction Directory and Demolition Recyclers, City of Los Angeles, published 2005.
   <a href="http://www.lacity.org/SAN/docs/c-and-d-recycling-guide.pdf">http://www.lacity.org/SAN/docs/c-and-d-recycling-guide.pdf</a>
- C&D Debris Recyclers Database for Los Angeles County, published by the CIWMB, http://www.ciwmb.ca.gov/ConDemo/

#### **REUSE OPPORTUNITIES:**

- Habitat for Humanity, Pasadena, (626) 792-3838 or <u>www.sgvhabitat.org</u>
- CalMAX (California Materials Exchange), 877-520-9703 or <u>www.CalMAX.org</u>
- LA SHARES, (213) 485-1097 or www.lashares.org (For old, excess or unwanted office furniture, office equipment, office supplies, given to schools and non-profit agencies)
- The Recycler publication (818) 772-3590
- Craig's list, <u>www.losangeles.craigslist.org</u>
- Freecycle, <u>www.freecycle.org</u>

## **APPLICATION PROCESS**

Compliance with the ordinance can be achieved through one of two options.

#### **OPTION 1**:

Under Option 1, the application does not have to fill out any special forms or submit extra plans. The amount of generated debris will be determined during Plan Check Review based on the default waste generated per square foot values that have been determined by the U.S. Environmental Protection Agency for the main types of construction projects. A chart containing these rates can be found on page 4.

A \$50 administrative fee and refundable deposit will be paid at the time of permit issuance. The deposit is calculated at a rate of \$250 for the first ton and \$50 for each additional ton of debris.

During the course of construction, recycle at least 50% of the solid waste tonnage by taking the debris to a recycling facility or hiring a waste hauler that recycles. A list of what qualifies as C&D debris materials is included on page 2. Inert materials removed from the job site such as dirt, natural soil and gravel do not have to be recycled and are not included in the required recycled tonnage.

The deposit is refundable upon submittal of recycling receipts and a Request for C&D Deposit Refund form within 90 of an approved Final Inspection. A refund check will be mailed to the person or company that paid the deposit fee within 30 days.

Construction projects that were started without required permits forfeit refund of the deposit because diversion of 50% of the total debris cannot be confirmed.

#### **OPTION 2:**

Option 2 is an alternative method for applicants who wish to itemize and provide their own debris estimate. The applicant may design their own Waste Management Plan or used the sample long form provided by the Building Division. The WMP must be certified by a licensed contractor, engineer, or architect.

## Waste Management Plan - Long Form

Project Address: Address where work is taking place

**Contact Information:** The Contact Name should be the contractor or the homeowner/builder. Please include company name and address, or home address if homeowner/builder, the phone number and email address.

**Column A:** The Total Tons Debris column is an *estimate* of the **total quantity of discarded materials** by material type that will be generated from all phases (i.e. demolition and construction) of the project. Quantities must be listed in tons. If quantities are only available in yards or square feet, use the *Materials Conversion Worksheet* to convert material volume to tons.

**Column B:** The Reuse column is for materials in **usable condition only that are being reused.** Examples include wood from foundation forms that will be reused on this job, usable lighting fixtures, windows, doors, lumber, cabinets, etc.

Column C: The Recycle column is for C&D materials that will be recycled.

**Column D:** The Disposal column is used for materials that **will not** be reused or recycled such as painted wood, pressure-treated wood, insulation and hazardous materials.

**Note:** When filling out all columns, indicate quantities in tons for each material. The quantities listed in Columns B, C, and D must add up to the quantity for that material listed in Column A. For example, if your project will generate 20 tons of concrete debris and you are planning on recycling half and disposing half, you would list 20 tons in Column A, and then put 10 tons in Column C and 10 tons in Column D.

**Column E:** List the facility or service provider you intend to use for reusing, recycling or disposing of each material generated from your project. Appropriate facilities are listed on pages 5-7 of the *Reference Manual.* Facilities not appearing on the list must be verified by City staff.

Non-Recyclable Debris: Hazardous or similar debris that may not be reused or recycled.

Recyclable Mixed Debris: This line refers to debris generated in addition to the separated materials listed in the lines above. In order to receive credit for recycling Mixed Debris, a facility or service recognized by the City must be utilized. Bulk Mixed Debris may not be reused. A list of facilities that provide mixed C&D debris recycling services is provided on pages 5-7. This information is also available on the Building Division's website at <a href="https://www.burbankca.org/building">www.burbankca.org/building</a>.

Column Totals: Add up quantities listed in each column and indicate totals at the bottom.

**Question 1:** Fill in the blanks using the quantities of C&D debris listed at the bottom of each Column Totals for B, C, and D, and divide by Column A to determine the percentage of waste reused or recycled. This amount should be equal to or greater than 50%.

Question 2: Take total tons from Column A and subtract one ton. Multiply result by \$50 per ton and enter the product on line b. Add line a (\$250) and line b. This sum is the amount of the total refundable deposit.

Sign and date the WMP at the bottom.

## Recycling Summary Report (RSR)

The RSR form is a request for refund of the deposit that documents *actual* quantities recycled and facilities or service providers used rather than estimates. RSR quantities listed must be based on verifiable data gathered throughout the project, e.g. weight tags, gate receipts, etc.

The RSR must be submitted within 90 days of Final Inspection approval to obtain a refund of the recycling deposit that was collected at the time of application submittal. The RSR and accompanying receipts will be reviewed for compliance. If compliance is confirmed, a refund check will be mailed within 30 days of submittal to the person or company who paid the fee.

Applicants who fail to divert 50% or more of the debris from their project may not receive a refund of the recycling deposit. Construction projects that were started before the issuance of a permit or were issued a Notice to Stop Work order also forfeit refund of the deposit.

## **C&D Materials Conversion Worksheet**

Use this worksheet to convert from common construction units to TONS. This worksheet can be used to complete a Waste Management Plan (WMP) or Recycling Summary Report (RSR), **but it does not have to be completed or submitted**. WMPs and RSRs should be submitted with all materials listed in TONS.

<u>Step 1</u> - Calculate scrap or waste quantity for each material in typical units - square feet, board feet or cubic yards. Calculate from materials take offs and waste factors. Enter into Column I. <u>Step 2</u> - Multiply by the conversion factor in Column II and put answer in Column III. <u>Step 3</u> - Transfer the TONS listed in Column III to the WMP or RSR, Column A, and follow the directions on those forms.

Material Category		Column I		Column II	Column III
		<u>Volume</u>	<u>Unit</u>	Tons/unit	<u>Tons</u>
Asphalt/Concrete	Asphalt (broken)		су х	0.7	=
	Concrete (broken)		су х	0.9	=
	Concrete (solid slab)		су х	1.3	=
Brick/Masonry/Tile	Brick (broken)		су х	0.7	=
	Brick (whole, palletized)		су х	1.512	=
	Masonry block (broken)		су х	0.6	=
	Tile		sq ft x	0.00175	=
Building Materials (doors, fi	xtures, windows/plate		су х	0.15	=
glass, cabinets)  Cardboard			01. 1	0.05	_
	CI .		cy x		=
Carpet	flat		sq ft x	0.0005	=
	loose		су х	0.3	=
Carpet Padding/Foam	flat		су х		
	loose		sq ft x	0.00013	=
Ceiling Tiles	whole (palletized)		sq ft x	0.0003	=
	loose		су х	0.0875	=
Drywall, new or used	1/2"		sq ft x	0.0008	=
	5/8"		sq ft x	0.00105	=
	mixed		су х	0.25	=
Scrap Metal			су х	0.453	=
Wood & Pallets	clean, unpainted		bd ft x	0.00138	=
(no pressure treated lumber	r) loose		су х	0.15	=
Non-Recyclable Debris			су х	0.175	=
Recyclable Mixed Debris			су х	0.175	=
cy = cubic yards sq ft = squ	ıare feet bd ft = board fee	t			

Be prepared to provide weight receipts or other verifiable documents.

## Construction & Demolition Debris Project Tracking Sheet - Part I

This sheet can be used prior to completing the C&D Debris Recycling Summary Report to help with recording the various materials that will be generated at each major phase of the project. Use of this sheet is optional, not required.

Material Type	Foundation	Floor	Frame	Final	
	Reuse Recycle Dispose	Reuse Recycle Dispose	Reuse Recycle Dispose	Reuse Recycle Dispose	
Asphalt & Concrete					
Brick/Masonry/Tile					
Building Materials (doors, windows, fixtures)					
Carpet					
Carpet Padding/Foam					
Cardboard					
Ceiling Tile (acoustic)					
Drywall (used)					
Drywall (new, unpainted sheets or scrap)					
Scrap Metal					
Unpainted Wood & Pallets					
Other (Do not include dirt)					
Mixed Debris					
Column Totals					

## <u>Construction & Demolition Debris Project Tracking Sheet – Part II</u>

This sheet can be used prior to completing the C&D Debris Recycling Summary Report to help with recording the various materials that will be generated at each major phase of the project. **Use of this sheet is optional and not required**.

Material Type	A Reused/Salvaged	B Recycled	C Disposed	D Destination
Example: Cardboard	Neuseu/ Salvageu	-		
-		1.5 cy, 2.5 cy, 3.5 cy	1.5 cy	Downtown Diversion
Asphalt & Concrete				
Brick/Masonry/Tile				
Building Materials				
(doors,windows,fixtur				
es)				
Carpet				
Carpet Padding/Foam				
(only)				
Cardboard				
Ceiling Tile (acoustic)				
Drywall (used)				
Drywall (new,				
unpainted sheets or				
scrap)				
Scrap Metal				
Unpainted Wood &				
Pallets				
Other (don not				
include dirt)				
Mixed Debris				
Column Totals				